

**METHOD FOR ATSC DTV MULTIPATH
EQUALIZATION AND ASSOCIATED DEVICES**

Abstract of the Disclosure

A method for mitigating multipath in a digital television signal (DTV) includes multiplexing reference data with DTV data to generate a multiplexed DTV data stream, and modulating the multiplexed DTV data stream for transmission. After the transmitted DTV signal is received, correlation peaks are detecting based upon the multiplexed reference data. The detected correlation peaks are used to mitigate multipath in the received DTV signal.